

553,608

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number
WO 2004/094988 A2

(51) International Patent Classification⁷:

G01N

(74) Agents: KERNER, Ann-Louise, Ph.D. et al.; Hale and Dorr LLP, 60 State Street, Boston, MA 02109 (US).

(21) International Application Number:

PCT/US2004/011919

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 19 April 2004 (19.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10/419,039

18 April 2003 (18.04.2003)

US

60/527,001

5 December 2003 (05.12.2003)

US

10/749,119

30 December 2003 (30.12.2003)

US

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): NORWOOD IMMUNOLOGY, LTD. [AU/AU]; 63 Wells Road, Chelsea Heights, 3196 Victoria (AU).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): GOLDBERG, Gabrielle, Lianne [AU/AU]; 10 Willansby Ave, Brighton, 3186 Victoria (AU). SUTHERLAND, Jayne, Suzanne [AU/AU]; 172 Dow Street, Port Melbourne, 3207 Victoria (AU). CHIDGEY, Ann, Patricia [AU/AU]; 274 Beach Road, Black Rock, 3193 Victoria (AU). BOYD, Richard [AU/AU]; 60 Linacre Road, Hampton, 3188 Victoria (AU).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TOLERANCE TO GRAFT PRIOR TO THYMIC REGENERATION

(57) Abstract: The present disclosure provides methods for inducing tolerance in a recipient to a mismatched graft of an organ, tissue, and/or cells, by disrupting sex steroid signaling in the patient, wherein the bone marrow and other immune cell functionality is improved without, prior to, or concurrently with, thymic regeneration. In some embodiments, sex steroid signaling in the patient, is interrupted or ablated by the administration of LHRH agonists, LHRH antagonists, anti-LHRH receptor antibodies, anti-LHRH vaccines, anti-androgens, anti-estrogens, selective estrogen receptor modulators (SERMs), selective androgen receptor modulators (SARMs), selective progesterone response modulators (SPRMs), ERDs, aromatase inhibitors, or various combinations thereof.

WO 2004/094988 A2